

10 30 50
 CATGGGTGGGGTGGGGGCGCTGCTGGATTCTGCTCTGGTGGAGGGGAACTTGTGAGG
 70 90 110
 GGCTGGTAAGCGCCCCCTCCGAAGCCTGGTGTGTGCGCGGGGGGAAGGAAGTTAGTTTCC
 130 150 170
 TCTCCACCCATGGGCACCCCTTCTGCCCGGGGCCTGGGAAGTGGGCTGCTCTGTGGGCAA
 190 210 230
 ATGCTGGGGCCTCTGAAATGGAGGAGACGCAGCAGGGAGAGGCCCCACGTGGGCAGCTGC
 M E E T Q Q G E A P R G Q L R
 250 270 290
 GCGGAGAGTCAGCAGCACCTGTCCCCCAGGCGCTCCTCCTGGTGTGCTGGGGGGCCCGGG
 G E S A A P V P Q A L L L V L L G A R A
 310 330 350
 CCCAGGGCGGCACTCGTAGCCCCAGGTGTGACTGTGCCGGTGACTTCCACAAGAAGATTG
 Q G G T R S P R C D C A G D F H K K I G
 370 390 410
 GTCTGTTTTGTTGCAGAGGCTGCCCAGCGGGGCACTACCTGAAGGCCCTTGCACGGAGC
 L F C C R G C P A G H Y L K A P C T E P
 430 450 470
 CCTGCGGCAACTCCACCTGCCTTGTGTGTCCCCAAGACACCTTCTTGGCCTGGGAGAACC
 C G N S T C L V C P Q D T F L A W E N H
 490 510 530
 ACCATAATTCTGAATGTGCCCGCTGCCAGGCCTGTGATGAGCAGGCCTCCCAGGTGGCGC
 H N S E C A R C Q A C D E Q A S Q V A L
 550 570 590
 TGGAGAACTGTTTCAGCAGTGGCCGACACCCGCTGTGGCTGTAAGCCAGGCTGGTTTGTGG
 E N C S A V A D T R C G C K P G W F V E
 610 630 650
 AGTGCCAGGTGAGCCAATGTGTGTCAGCAGTTACCCCTTCTACTGCCAACCATGCCTAGACT
 C Q V S Q C V S S S P F Y C Q P C L D C

FIG.1A

670 690 710
 GCGGGGCCCTGCACCGCCACACACGGCTACTCTGTTCCCGCAGAGATACTGACTGTGGGA
 G A L H R H T R L L C S R R D T D C G T

730 750 770
 CCTGCCTGCCTGGCTTCTATGAACATGGCGATGGCTGCGTGTCTGCCCCACGAGCACCC
 C L P G F Y E H G D G C V S C P T S T L

790 810 830
 TGGGGAGCTGTCCAGAGCGCTGTGCCGCTGTCTGTGGCTGGAGGCAGATGTTCTGGGTCC
 G S C P E R C A A V C G W R Q M F W V Q

850 870 890
 AGGTGCTCCTGGCTGGCCTTGTGGTCCCCCTCCTGCTTGGGGCCACCCTGACCTACACAT
V L L A G L V V P L L L G A T L T Y T Y

910 930 950
 ACCGCCACTGCTGGCCTCACAAGCCCCTGGTTACTGCAGATGAAGCTGGGATGGAGGCTC
 R H C W P H K P L V T A D E A G M E A L

970 990 1010
 TGACCCACCCACCGGCCACCCATCTGTCACCCTTGGACAGCGCCACACCCTTCTAGCAC
 T P P P A T H L S P L D S A H T L L A P

1030 1050 1070
 CTCCTGACAGCAGTGAGAAGATCTGCACCGTCCAGTTGGTGGGTAACAGCTGGACCCCTG
 P D S S E K I C T V Q L V G N S W T P G

1090 1110 1130
 GCTACCCCGAGACCCAGGAGGCGCTCTGCCCGCAGGTGACATGGTCCTGGGACCAGTTGC
 Y P E T Q E A L C P Q V T W S W D Q L P

1150 1170 1190
 CCAGCAGAGCTCTTGGCCCCGCTGCTGCGCCACACTCTCGCCAGAGTCCCCAGCCGGCT
 S R A L G P A A A P T L S P E S P A G S

1210 1230 1250
 CGCCAGCCATGATGCTGCAGCCGGGCGCAGCTCTACGACGTGATGGACGCGGTCCCAG
 P A M M L Q P G P Q L Y D V M D A V P A

1270 1290 1310
 CGCGGCGCTGGAAGGAGTTCGTGCGCACGCTGGGGCTGCGCGAGGCAGAGATCGAAGCCG
R R W K E F V R T L G L R E A E I E A V

FIG.1B

1330 1350 1370
 TGGAGGTGGAGATCGGCCGCTTCCGAGACCAGCAGTACGAGATGCTCAAGCGCTGGCGCC
E V E I G R F R D Q Q Y E M L K R W R Q

1390 1410 1430
 AGCAGCAGCCCGCGGGCCTCGGAGCCGTTTACGCGGCCCTGGAGCGCATGGGGCTGGACG
Q Q P A G L G A V Y A A L E R M G L D G

1450 1470 1490
 GCTGCGTGGAAGACTTGCGCAGCCGCTGCAGCGCGGCCCGTGACACGGCGCCCACTTGC
C V E D L R S R L Q R G P *

1510 1530 1550
 CACCTAGGCGCTCTGGTGGCCCTTG CAGAAGCCCTAAGTACGGTTACTTATGCGTGTAGA

1570 1590 1610
 CATTTTATGTCACTTATTAAGCCGCTGGCACGGCCCTGCGTAGCAGCACCAGCCGGCCCC

1630 1650 1670
 ACCCCTGCTCGCCCCTATCGCTCCAGCCAAGGCGAAGAAGCACGAACGAATGTCGAGAGG

1690 1710 1730
 GGGTGAAGACATTTCTCAACTTCTCGGCCGGAGTTTGGCTGAGATCGCGGTATTAAATCT

1750 1770
 GTGAAAGAAAACAAAACAAAACAAAAAAAAAAAAAAAAAAAAA

FIG. 1C

1 ATGGAGCAGC GCGCGCGGGG CTGCGCGGCG GTGGCGGCGG CGCTCCTCCT GGTGCTGCTG
 M E Q R P R G C A A V A A A L L L V L L

61 GGGGCCCCGGG CCCAGGGCGG CACTCGTAGC CCCAGGTGTG ACTGTGCCGG TGAATTCCAC
 G A R A Q G G T R S P R C D C A G D F H

121 AAGAAGATTG GTCTGTTTTG TTGCAGAGGC TGCCAGCGG GGCCTACCT GAAGGCCCTT
 K K I G L F C C R G C P A G H Y L K A P

181 TGCACGGAGC CCTGCGGCAA CTCCACCTGC CTTGTGTGTC CCCAAGACAC CTTCTTGGCC
 C T E P C G N S T C L V C P Q D T F L A

241 TGGGAGAACC ACCATAATTC TGAATGTGCC CGCTGCCAGG CCTGTGATGA GCAGGCCTCC
 W E N H H N S E C A R C Q A C D E Q A S

301 CAGGTGGCGC TGGAGAACTG TTCAGCAGTG GCCGACACCC GCTGTGGCTG TAAGCCAGGC
 Q V A L E N C S A V A D T R C G C K P G

361 TGGTTTGTGG AGTGCCAGGT CAGCCAATGT GTCAGCAGTT CACCCTTCTA CTGCCAACCA
 W F V E C Q V S Q C V S S S P F Y C Q P

421 TGCCTAGACT GCGGGGCCCT GCACCGCCAC ACACGGCTAC TCTGTTCCCG CAGAGATACT
 C L D C G A L H R H T R L L C S R R D T

481 GACTGTGGGA CCTGCCTGCC TGGCTTCTAT GAACATGGCG ATGGCTGCGT GTCCTGCCCC
 D C G T C L P G F Y E H G D G C V S C P

541 ACGAGCACCC TGGGGAGCTG TCCAGAGCGC TGTGCCGCTG TCTGTGGCTG GAGGCAGATG
 T S T L G S C P E R C A A V C G W R Q M

601 TTCTGGGTCC AGGTGCTCCT GGCTGGCCTT GTGGTCCCC TCCTGCTTGG GGCCACCCTG
 F W V Q V L L A G L V V P L L L G A T L

661 ACCTACACAT ACCGCCACTG CTGGCCTCAC AAGCCCCTGG TTAAGCTGGA TGAAGCTGGG
 T Y T Y R H C W P H K P L V T A D E A G

721 ATGGAGGCTC TGACCCACCC ACCGGCCACC CATCTGTCAC CCTTGGACAG CGCCACACCC
 M E A L T P P P A T H L S P L D S A H T

781 CTTCTAGCAC CTCCTGACAG CAGTGAGAAG ATCTGCACCG TCCAGTTGGT GGGTAACAGC
 L L A P P D S S E K I C T V Q L V G N S

FIG.2A

841 TGGACCCCTG GCTACCCCGA GACCCAGGAG GCGCTCTGCC CGCAGGTGAC ATGGTCCTGG
W T P G Y P E T Q E A L C P Q V T W S W

901 GACCAGTTGC CCAGCAGAGC TCTTGGCCCC GCTGCTGCCG CCACACTCTC GCCAGAGTCC
D Q L P S R A L G P A A A P T L S P E S

961 CCAGCCGGCT CGCCAGCCAT GATGCTGCAG CCGGGCCCCG AGCTCTACGA CGTGATGGAC
P A G S P A M M L Q P G P Q L Y D V M D

1021 GCGGTCCCAG CGCGGCGCTG GAAGGAGTTC GTGCGCACGC TGGGGCTGCC CGAGGCAGAG
A V P A R R W K E F V R T L G L R E A E

1081 ATCGAAGCCG TGGAGGTGGA GATCGGCCGC TTCCGAGACC AGCAGTACGA GATGCTCAAG
I E A V E V E I G R F R D Q Q Y E M L K

1141 CGCTGGCGCC AGCAGCAGCC CGCGGGCCTC GGAGCCGTTT ACGCGGCCCT GGAGCCCATG
R W R Q Q Q P A G L G A V Y A A L E R M

1201 GGGCTGGACG GCTGCGTGGA AGACTTGCGC AGCCGCCTGC AGCGCGGCCC GTGA
G L D G C V E D L R S R L Q R G P

FIG.2B

Consensus #1 M

DDCR M E E T Q Q G E A P R G Q L R G E S A A P V P Q A L L V L 30
 TNFR1 M G L S T V P D L L L P L V L L E L V G I Y P S G V I G L 30
 FAS M - L G I W T L L P L V L T S V A R L S S K S V N A Q V T D 29

Consensus #1 C

DDCR L G A R A Q G G T R S P R C D C A G D F H - - K K I G L F C 58
 TNFR1 V P H L G D R E K R D S V C P Q G K Y I H - - P Q N N S I C 58
 FAS I N S K G L E L R K T V T T V E T Q N L E G L H H D G Q F C 59

Consensus #1 C

DDCR C R G C P A G H Y L K A P C T E P C G N S T C L V C P Q D T 88
 TNFR1 C T K C H K G T Y L Y N D C P G P G Q Q D T D C R E C E S G S 88
 FAS H K P C P P G E R K A R D C T V N G D E P D C V P C Q E G K 89

Consensus #1 H C C

DDCR F L A W E N H H N S E C A R C Q A C D E Q A S Q V A L E N C 118
 TNFR1 F T A S E N H L R - H C L S C S K C R K E M G Q V E I S S C 117
 FAS E Y T D K A H F S S K C R R C R L C D E G H G L E V E I N C 119

FIG.3A

Consensus #1	. . . . . T . C . C . . . . .	. . . . .	. . . . .
DDCR	S A V A D T R C G C K P G W F V E C	--	Q V S Q C V S S S 145
TNFR1	T V D R D T V C G C R K N Q Y R H Y W S E N L F Q C	--	-- 144
FAS	I R T Q N I K C R C K P N F F Q N	--	-- 137
Consensus #1	. . . . . C . . . . .	. . . . .	. . . . .
DDCR	P F Y C Q Q P C L D C G A L H R H T R L C S R R D T D C G T		175
TNFR1	- F N C S L C L N - G T V H - - - L S C Q E K Q N T V C T		167
FAS	- - - S T V C E H C D P - - - - - C T K		148
Consensus #1	C C . . . . .	. . . . .	. . . . .
DDCR	C L P G F Y E H G D G C V S C P T S T L G - S C P E R C	--	203
TNFR1	C H A G F F L R E N E C V S C S N C K K S L E C T K L C L P		197
FAS	C E H G I I - - - K E C - - - - - T L T S N T K C	--	166
Consensus #1	. . . . .	. . . . .	L
DDCR	- - - - - A A V C G W R Q M F W V Q V L L A G L V V P L		225
TNFR1	Q I E N V K G T E D S G T T V L P L V I F F G L C L S L		227
FAS	- - - - - K E E G S R S N L G W L C L L L - - L P I P L		186

FIG.3B

Consensus #1	.....K.FV	
DDCR	--PAMMLQPGPQLYDVMDAVPARRWKEFV	362
TNFR1	HKPQSLDTDPATLYAVVENVPPLRWKEFV	375
FAS	-----DVDL SKYITTIAGVMTLSQVKGFV	249
Consensus #1	R..G.....I.....L..	
DDCR	RTLGLREAEIEAVVEIGR-FRDQQYEMLK	391
TNFR1	RRLLCLSDHEIDRL ELQNGRCCLREAQYSMLA	405
FAS	RKNGVNEAKIDEIKNDNVQDTAEQKVQLLR	279
Consensus #1	W.....A.....L.....L.....E	
DDCR	RWRQQQP--AGLGA VYAALERMGLDGCVE	418
TNFR1	TWRRRRTPRREATLELGRVLRDMDLLGCL E	435
FAS	NWHQLHGGKEA-YDTL IKDLKKNLCTLA E	308
Consensus #1	.....
DDCR	DL-----RSLQ RGP	428
TNFR1	DTIEEAL-----CGPAALPPAPSLR	455
FAS	KIQTIILKDI TSDSEN SNFRNEIQSLV	335

FIG.3D

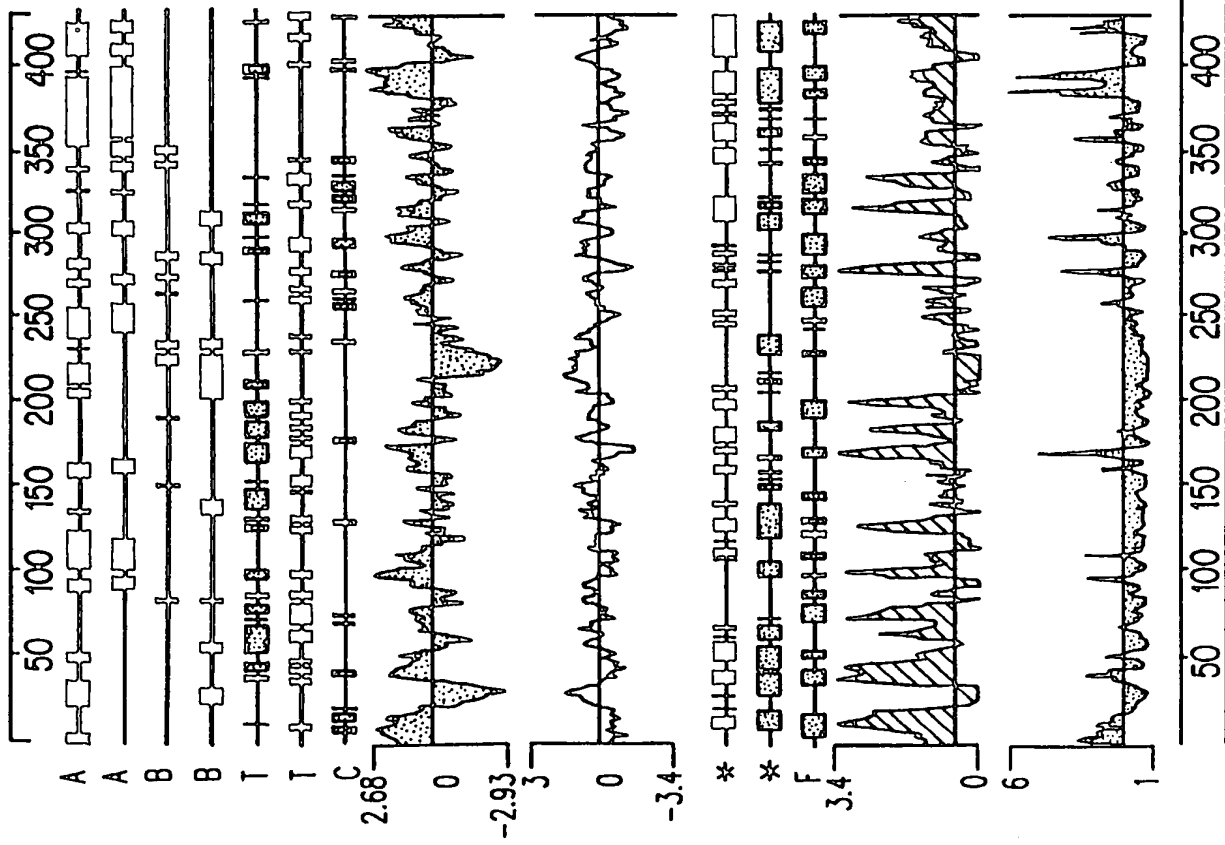


FIG.4